Data Sheet (Cat.No.TMAY-00729)

TargetMol

Anti-PD-1 Antibody (3C473)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3C473
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of human PD1 in human tonsil with rabbit monoclonal antibody (1:200,formalin-fixed paraffin embedded sections). 2. Immunochemical staining of human PD1 in human spleen with rabbit monoclonal antibody (1:200,formalin-fixed paraffin embedded sections). 3. Immunochemical staining of human PD1 in human lymphnode with rabbit monoclonal antibody (1:200,formalin-fixed paraffin embedded sections).
Application:	ELISA,IHC-P
Recommended	ELISA: 1:5000-1:10000; IHC-P: 1:100-1:500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human PD1 / PDCD1 / CD279 protein (TMPY-00897)
Antigen Species:	Human
Synonyms:	CD279;hSLE1;PD1;programmed cell death 1;SLEB2;PD-1;hPD-1;hPD-l
Biology Area:	ITIM/ITAM Immunoreceptors and Related Molecules, Cancer Drug Targets

Research Background

Programmed cell death 1, also known as PDCD1, is a type I transmembrane glycoprotein, and is an immunoreceptor belonging to the CD28/CTLA-4 family negatively regulates antigen receptor signaling by recruiting protein tyrosine phosphatase, SHP-2 upon interacting with either of two ligands, PD-L1 or PD-L2. PD1 inhibits the T-cell proliferation and production of related cytokines including IL-1, IL-4, IL-10 and IFN-γ by suppressing the activation and transduction of PI3K/AKT pathway. In addition, coligation of PD1 inhibits BCR-mediating signal by dephosphorylating key signal transducer. PD1 has been suggested to be involved in lymphocyte clonal selection and peripheral tolerance, and thus contributes to the prevention of autoimmune diseases. Furthermore, PD1 is shown to be a regulator of virus-specific CD8+ T cell survival in HIV infection. As a cell surface molecule, PDCD1 regulates the adaptive immune response. Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function.Cancer ImmunotherapyCo-inhibitory Immune Checkpoint TargetsImmune CheckpointImmune Checkpoint Blockade: Blocking AntibodiImmune Checkpoint Blockade: PD1 / PDCD1 / CD2Immune Checkpoint Detection: AntibodiesImmune Checkpoint Detection: ELISA

AntibodiesImmune Checkpoint Detection: IHC AntibodiesImmune Checkpoint Detection: WB AntibodiesImmune Checkpoint ProteinsImmune Checkpoint TargetsImmunotherapyPD1 / PDCD1 / CD279 Immune CheckpointPD1 / PDCD1 / CD279 Immune Checkpoint AntibodPD1 / PDCD1 / CD279 Immune Checkpoint ProteinTargeted Therapy